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### Method of determining the **orientation** of an image

P Dewaele - US Patent App. 10/776,736, 2004 - Google Patents

... [0068] From the formulas of **Frenet-Serret**, it can ... with high curvature as more important indicators of the **orientation** sense of the shape, each **vote** may be ...

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[ps] ► Qualitative transitions in object reorienting behaviour, Part 2: The effects of varying the

...

GE Deacon, M Wright, C Malcolm - DAI RESEARCH PAPER, 1997 - dai.ed.ac.uk

... of the VTC thus determining the sense of the **vote** as clockwise ... defined, will lead to the ob- ject reorienting into this **orientation**. ... 3 The **Frenet-Serret** Equations ...

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GE Deacon, M Wright, C Malcolm - Intelligent Robots and Systems, 1997. IROS'97., ..., 1997 - ieeexplore.ieee.org

... the VTC thus determining the sense of the **vote** as clockwise ... defined, will lead to the ob- ject reorienting into this **orientation**. ... 3 The **Frenet-Serret** Equations ...

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### Estimating relative vehicle motions in traffic scenes- ► psu.edu [PDF]

Z Duric, R Goldenberg, E Rivlin, A Rosenfeld - Pattern Recognition, 2002 - Elsevier

... **Serret** motion model, and showed that knowing how the **Frenet-Serret** frame is ... The **orientation** of the vehicle coordinate system  $C\eta\zeta$  relative to the camera ...

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### [PDF] ► CENTER FOR AUTOMATION RESEARCH

A Rosenfeld - dtic.mil

... We have the **Frenet-Serret** formulas [22]  $t = K\ddot{U}$ ,  $\dot{n}' = -\dot{e}t + \tau b$ ,  $b = -\dot{r}\dot{n}$  (1) where ... vector  $d/d$  between C and O, and the relative **orientation** of the ...

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### A theory of multiscale, curvature-based shape representation for planar curves

F Mokhtarian, AK Mackworth - IEEE Transactions on Pattern Analysis and Machine ..., 1992 - doi.ieeeecomputersociety.org

... 2]. Edge elements in the image **vote** for the ... curve of arbitrary shape at any scale or **orientation**. ... u) must satisfy the simplified **Serret-Frenet** vector equations ...

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### [book] Handbook of mathematical models in computer vision

N Paragios, Y Chen, O Faugeras - 2006 - books.google.com

... from the **Frenet** Point of View: Boundary Detection, Stereo, Texture and Color 359  
S. Zucker 22.1 Introduction 359 22.2 Introduction to **Frenet-Serret** 361 22.3 Co ...

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### [book] Curvature scale space representation: theory, applications, and MPEG-7 standardization

F Mokhtarian, MZ Bober - 2003 - books.google.com

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### Egomotion analysis based on the **Frenet-Serret** motion model

Z Duric, A Rosenfeld, LS Davis - International Journal of Computer Vision, 1995 - Springer

... **frame** (chosen with the nodal point of the camera as the origin) and the moving trihedron remains constant, the resulting motion is called **Frenet-Serret** ...

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### Quaternion **frame** approach to streamline visualization- ►indiana.edu [PDF]

AJ Hanson, H Ma - IEEE Transactions on Visualization and Computer ..., 1995 - IEEE Xplore

... **surfaces** (see [20]), and **orientation** differences (which are themselves **orientation fields**) as well. ... **frame**, also called the **Frenet-Serret frame** (see, eg, [9 ...

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### **Frenet-Serret** dynamics- ►citebase.org [PDF]

G Arreaga, R Capovilla, J Guven - Classical and Quantum Gravity, 2001 - IOP

... **Frenet-Serret** dynamics 5067 ... The arbitrariness in the choice of **frame** does however come at a price ... its content in a way which depends on the **orientation** of the ...

Cited by 17 - Related articles - BL Direct - All 6 versions

### Optical tunnelling: radiation losses in bent fibre-optic waveguides

WL Kath, GA Kriegsmann - IMA Journal of Applied Mathematics, 1988 - IMA

... It does not perfectly follow the **orientation** of the fibre, however, because ... does not necessarily match that of the fibre (the **Frenet-Serret frame** is determined ...

Cited by 19 - Related articles - All 3 versions

### Inverse kinematics of binary manipulators using a continuum model

GS Chirikjian - Journal of Intelligent and Robotic Systems, 1997 - Springer

...  $[u(L) \ n(L) \ b(L)] \in SO(3)$  be the rotation matrix representing the **orientation** of **Frenet-Serret frame** at  $x(L)$  for a given curve. ...

Cited by 14 - Related articles - BL Direct - All 5 versions

### Automatic fairing of point sets

M Eck, R Jaspert - Designing fair curves and surfaces: shape quality in ..., 1994 - Books.google.com

... again to the well-known **Frenet frame** and **Frenet** ... are the coefficients of these discrete **Frenet-Serret** formulas ... Pfj because of the spatial problem of **orientation**. ...

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### [PDF] ► The kinematics of hyper-redundant robot locomotion

GS Chirikjian, JW Burdick - IEEE transactions on robotics and automation, 1995 - Custer.lcsr.jhu.edu

... associated with it, in the same way that the **Frenet-Serret frame** is associated ...  $s, t$ ), the matrix represents a unique induced reference **frame orientation** at each ...

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### Spatial rational motions based on rational **Frenet-Serret** curves

R Ravani, A Meghdari - 2004 IEEE International Conference on Systems, Man ..., 2004 - IEEE Xplore

... shown. In this case the **orientation** of **frenet-serret frame** does not remain constant based on curvature changes. 4 RMF on RF Curves ...

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